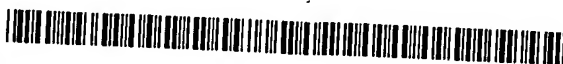


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(54) Title: NOVEL ANION-EXCHANGE MATERIALS

(57) **Abstract:** The invention provides a microporous material which comprises a positively charged framework and has potential application as an anion exchange material, typically in the treatment of waste materials in effluent streams, for example in the nuclear power industry. The microporous material facilitates the removal of undesirable anion species from solutions. A preferred structure comprises a silicophosphate comprising tetrahedra of  $\text{PO}_4^{+}$  and  $\text{SiO}_4$ , and the invention also provides a method for the synthesis of a silicophosphate using a two-phase system which includes an organic phase comprising an organosilicon compound and an aqueous phase comprising a phosphoric acid.

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